

PAVEMENT MANAGEMENT PROGRAM (PMP)

August 4, 2009



State Law

- In accordance with Section 2108.1 of the California Streets and Highway Code every City was required by July 1, 1990 to develop and adopt a pavement management program (PMP) to be utilized for managing local streets or highways that receive funding under the State Transportation Improvement Program (STIP).
- All arterial/collector streets must be re-inspected every two (2) years and the PMP updated.





STIP Funds

- STIP is a multi-year capital improvement program that is funded with the revenues of the Transportation Investment Fund and other sources.
- The program is managed by Caltrans.
- Guidelines for locally administered projects are available here:

http://www.dot.ca.gov/hq/LocalPrograms/lam/progg/g/23stip.pdf



What is Pavement Management?

- Pavement management is a system or methodology to develop cost effective maintenance and repair alternatives for roads and streets.
- It uses a combination of existing surveyed pavement defects, road classification, and traffic volumes to assign a pavement condition index (PCI) to each street which is used to determine the most costeffective maintenance treatment needed.





PMP Software: MicroPAVER

- Originally developed in the late 70's by the US Army Corps of Engineers to help the Department of Defense manage its vast inventory of pavements.
- It uses inspection data and a pavement condition index (PCI) rating from zero (failed) to 100 (good).
- It is the most widely used pavement management software in the public sector.







- Develop and organize pavement inventory
- Assess the current condition of pavements
- Develop models to predict future conditions
- Report on past and future pavement performance
- Develop scenarios for maintenance and rehabilitation (M&R) based on budget or condition requirements
- Plan projects



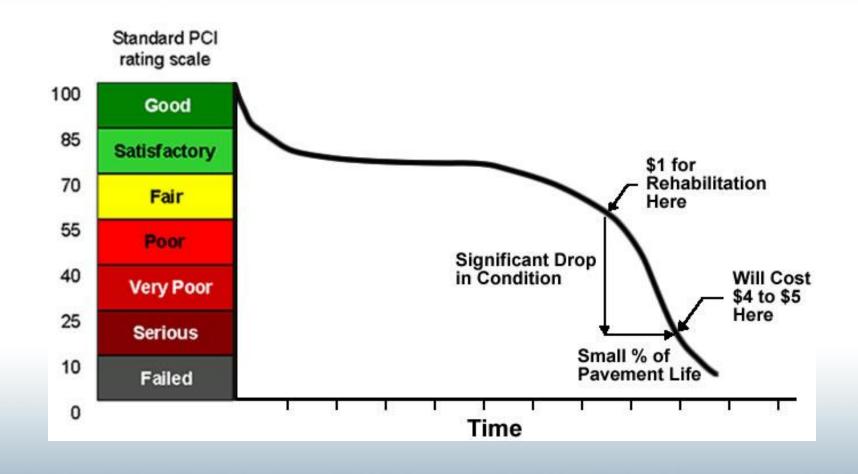


- The PCI of a street is a ranking of its health based on the severity of its defects.
- Streets are surveyed, and defects are quantified.
 These observations are entered into MicroPAVER and a PCI number is generated.
- For example, a newly paved street would have a PCI of 100. A 50-year old street with large cracking and many potholes would have a PCI of 10 or less and would need total reconstruction.



Pavement Condition Curve







City's Assets

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Beverly Hills has approximately 152.2 miles of paved surfaces comprising of:

•	68.6 miles of residential streets	\$93.5M
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• 23.1 miles of arterial streets \$4	4.4M
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•	18.5 miles of collector streets	\$30.4M
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• 42.0 miles of alleys \$31.0M

152. 2 Total miles with a total replacement value of \$199.3M



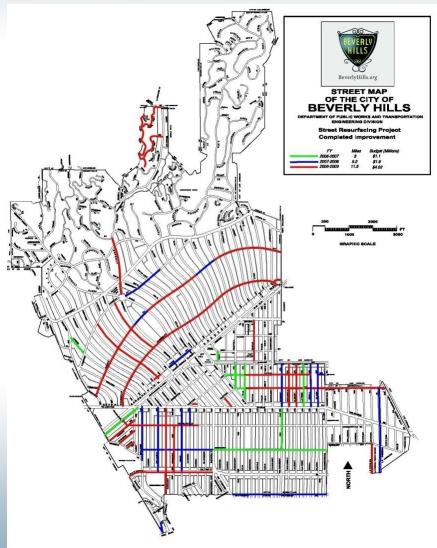


Street Selection/Engineering

- PMP is used as a planning tool. It helps select eligible streets for maintenance treatments.
- Staff verifies what streets can be saved with an overlay before full reconstruction is needed.
- Before streets are overlaid, staff verifies that there are no pending sewer, utility, or major private development projects planned that would result in cutting the new pavement.



Street Resurfacing 2006-2009

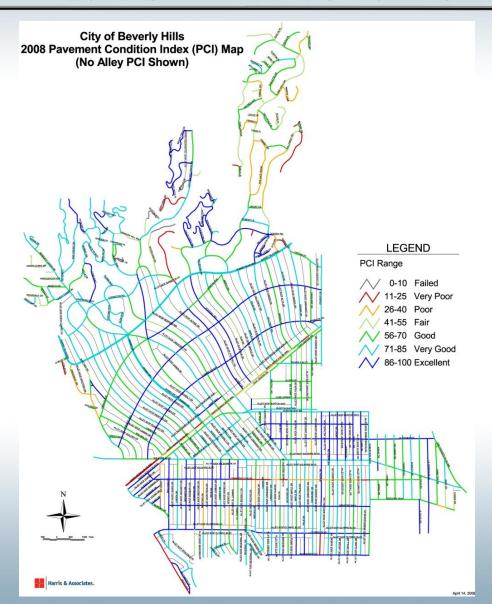


- In December 2007, the City's average PCI was 70 for streets and 52 for alleys (after 3 miles were paved in FY06-07 with \$1.1M budget).
- In April 2009, the City's average PCI was 73 for streets and 45 for alleys (after 16.7 miles were paved in FY07-09 with a \$5.9M budget).





Current PCI Conditions

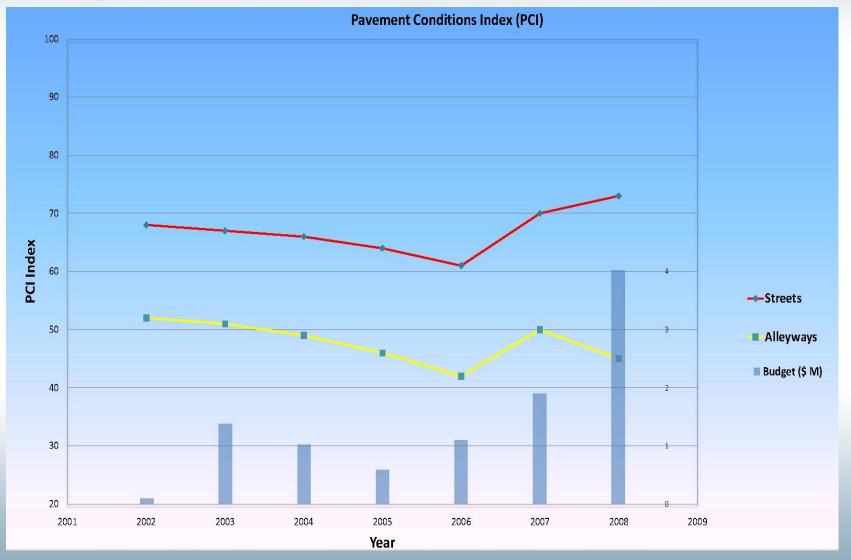






PCI per Year



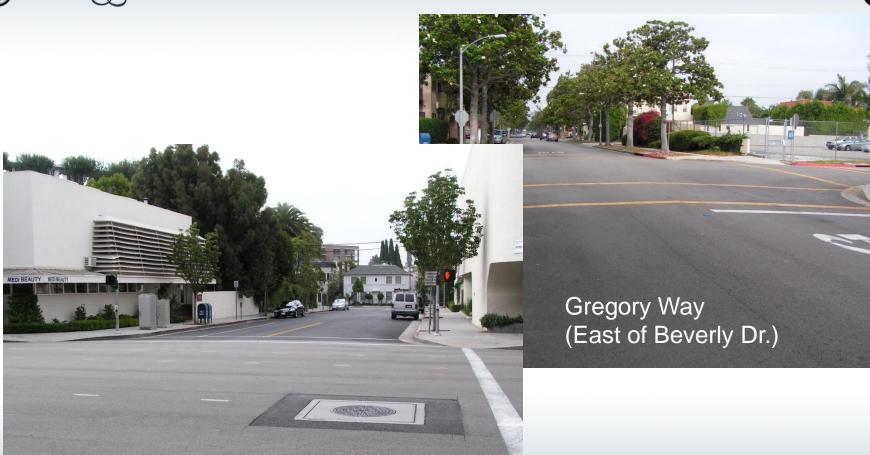




Santa Monica Blvd. S. Roadway

(West of Wilshire Blvd.)

Paving FY 2006-2007





Street Resurfacing 2007-2008





Street Resurfacing 2008-2009





How Do We Compare?

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Our current PCI for streets only (no alleys) is 73.

- Culver City 40(2005 MTA study)
- Los Angeles 62 (2008 LA report)
- Los Angeles County 61 (2005 MTA study)
- Santa Monica 70 (2005 MTA study)
- Torrance 40 (2005 MTA study)
- West Hollywood 50 (2005 MTA study)



Recommended Funding

- 0
- To maintain our current street PCI of 73 over the next 5 years, approximately \$4.5 M per year would need to be budgeted.
- To maintain our current alley PCI of 45 over the next 5 years, \$1.0 M per year would need to be budgeted.

A total of \$5.5 M per year is recommended funding to maintain our current street and alley conditions.





Grant Funds

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- Prop. 1B funds (initial disbursement):
 \$580,387 already spent on paving in FY 2008-09
- Prop. 1B funds (final disbursement):
 \$536,437 are allocated for expenditure in FY 2009-10
- ARRA funds:
 \$1,059,000 are allocated for expenditure in FY 2009-10





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Predicted Pavement Life



Years



Proposed Pavement Cut Ordinance

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 No excavation permits will be issued on newly constructed or renovated streets for 5 years after the filing of a Notice of Completion.

• Exceptions:

- 1) Emergencies endangering life or property
- 2) Material interruption of utility service
- 3) New service to a building
- 4) Mandated by city, state, or federal legislation
- 5) Best interest of general public.



"Pavements should be managed, not simply maintained!"